

-3 -

Tormasov *et al.*
Appl. No. 09/918,031*Amendments to the Claims*

This listing of claims will replace all prior versions, and listings of claims in the application.

1. (currently amended) A system for efficient utilization of a single ~~server hardware system~~ with a single operating system kernel by an end user of a personal computer, said system comprising:

a virtual computing environment functionally equivalent to a ~~computer server~~ having a full-featured operating system;

said virtual computing environment constructed and arranged to separate user processes on the level of namespace and on the basis of restrictions implemented inside said operating system kernel;

whereby emulation of hardware resource or a dedicated memory is not required.

2. (original) The system as defined in Claim 1 wherein virtual computing environments are not visible to other virtual computing environments operating in a network of computers on non-network level of communications.

3. (original) The system as defined in Claim 1 wherein each virtual computing environment has a completely independent root file system.

4. (currently amended) A computing system comprising:

a ~~computer~~ server having an operating system kernel;

a plurality of virtual computing environments running on the ~~computer~~ server, each virtual computing environment being functionally equivalent to ~~a the~~ computer; and

a plurality of user processes running within at least one of the virtual computing environments, the user processes being separated on a namespace level and based on restrictions implemented in the operating system kernel,

wherein the virtual computing environments do not require emulation of

-4 -

Tormasov *et al.*
Appl. No. 09/918,031

hardware resources.

5. (previously presented) The system of Claim 4, wherein each virtual computing environment has an independent root file system.

6. (previously presented) The system of Claim 4, wherein the virtual computing environments do not require a dedicated memory.

7. (previously presented) The system of Claim 4, wherein resources of the operating system kernel belonging to different users are separated on the namespace level.

8. (previously presented) The system of Claim 4, wherein resources and objects of one virtual computing environment are not visible to processes and objects of other virtual computing environments.

9. (previously presented) The system of Claim 4, wherein the virtual computing environment comprises processes and files of the operating system.

10. (previously presented) A method of operating a computing system comprising:

starting a ~~computer~~ server having an operating system kernel;

initiating a plurality of virtual computing environments on the ~~computer~~ server, each virtual computing environment being functionally equivalent to ~~a the~~ computer; and

launching a plurality of user processes running within at least one of the virtual computing environments, the user processes being separated on a namespace level and based on restrictions implemented in the operating system kernel,

wherein the virtual computing environments do not require emulation of hardware resources.

11. (previously presented) The method of Claim 10, wherein each virtual computing environment has an independent root file system.

-5 -

Tormasov *et al.*
Appl. No. 09/918,031

12. (previously presented) The method of Claim 10, wherein the virtual computing environments do not require a dedicated memory.

13. (previously presented) The method of Claim 10, wherein resources of the operating system kernel belonging to different users are separated on the namespace level.

14. (previously presented) The method of Claim 10, wherein resources and objects of one virtual computing environment are not visible to processes and objects of other virtual computing environments.

15. (previously presented) The method of Claim 10, wherein the virtual computing environment comprises processes and files of the operating system.

16. (currently amended) A computer program product for operating a computing system, the computer program product comprising a computer useable medium having computer program logic recorded thereon for controlling at least one processor, the computer program logic comprising:

computer program code means for starting a ~~computer~~ server having an operating system kernel;

computer program code means for initiating a plurality of virtual computing environments on the ~~computer~~ server, each virtual computing environment being functionally equivalent to ~~a the~~ computer; and

computer program code means for launching a plurality of user processes running within at least one of the virtual computing environments, the user processes being separated on a namespace level and based on restrictions implemented in the operating system kernel,

wherein the virtual computing environments do not require emulation of hardware resources.

17. (previously presented) The computer program product of Claim 16, wherein each virtual computing environment has an independent root file system.

-6 -

Tormasov *et al.*
Appl. No. 09/918,031

18. (previously presented) The computer program product of Claim 16, wherein the virtual computing environments do not require a dedicated memory.

19. (previously presented) The computer program product of Claim 16, wherein resources of the operating system kernel belonging to different users are separated on the namespace level.

20. (previously presented) The computer program product of Claim 16, wherein resources and objects of one virtual computing environment are not visible to processes and objects of other virtual computing environments.